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14 **UNITED STATES DISTRICT COURT**
15 **FOR THE SOUTHERN DISTRICT OF CALIFORNIA**

16 JOON PARK, an individual,

17 Plaintiff,

18 v.

19 CMT USA, INC., a,
20 North Carolina corporation,

21 Defendant.

Civil No.:

**COMPLAINT FOR PATENT
INFRINGEMENT**

Jury Trial Demanded

22 Plaintiff, Joon Park for his Complaint against CMT USA, Inc. alleges:

23 **THE PARTIES**

24 1. Joon Park is an individual having an address at 1320 Virginia Avenue,
25 Glendale, California 91202.

26 2. CMT USA, Inc. ("CMT") is a corporation organized and existing under the
27 laws of the State of North Carolina with a place of business at 307 Pomona Drive, Suite F,
28 Greensboro, North Carolina 27404.

JURISDICTION

3. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331

FILED

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CLERK, U.S. DISTRICT COURT
SOUTHERN DISTRICT OF CALIFORNIA

BY:

DEPUTY

'08 CV 0668 BEN NLS

Complaint 1

ORIGINAL

1 and 1338(a) because this action arises under the Patent Laws of the United States, 35
2 U.S.C. § 271. Personal jurisdiction of the Defendant is proper in this Federal District
3 pursuant to 28 U.S.C. § 1391(c) in that Defendant has conducted business, committed acts
4 of infringement and continues to commit acts of infringement in this District. Venue is
5 proper in this district based on 28 U.S.C. § 1391(c).

6 **BACKGROUND FACTS**

7 4. On October 28, 2003, United States Patent No. 6,637,988 (the '988 patent)
8 was duly and legally issued by the United States Patent and Trademark Office for an
9 invention entitled Adjustable Pocket Drilling Fixture. Joon Park is the owner of the entire
10 right, title and interest in and to the '988 patent. A true and correct copy of the '988 patent
11 is attached hereto as Exhibit 1.

12 5. On November 14, 2006, United States Patent No. 7,134,814 (the '814
13 patent) was duly and legally issued by the United States Patent and Trademark Office for
14 an invention entitled Adjustable Pocket Drilling Fixture based on a continuation-in-part
15 application based on the application that matured into the '988 patent. Joon Park is the
16 owner of the entire right, title and interest in and to the '814 patent. A true and correct
17 copy of the '814 patent is attached hereto as Exhibit 2.

18 6. In the spring of 2004, Joon Park exchanged emails and conferred by
19 telephone with representatives of CMT regarding licensing the '988 patent. No business
20 arrangement was consummated and no license granted. Since the '814 patent did not issue
21 until November 2006, the parties never discussed that patent at that time.

22 7. On February 28, 2008, Joon Park sent a cease-and-desist letter to the
23 registered agent of CMT, Albert E. Guarnieri, by Federal Express charging that the '988
24 and '814 patents were infringed. A copy of that letter is attached as Exhibit 3. An
25 acknowledgment of receipt was delivered by Federal Express to counsel for Joon Park.
26 The letter required response by March 10, 2008. No response as of the date of filing of
27 this Complaint was received.
28

INFRINGEMENT OF THE '183 AND '814 PATENTS

8. Joon Park incorporates herein by reference Paragraphs 1 - 7.

9. CMT has infringed, contributed to infringement, induced infringement, and continues to infringe the '988 and '814 patents. The infringing acts include, but are not limited to, the manufacture, use, sale, importation, and offer for sale of the Model "Pocket Pro" jig. CMT is liable for infringement of the '988 and '814 patents under the provisions of 35 U.S.C. § 271.

10. The acts of infringement by CMT have caused financial injury to Joon Park and Joon Park is entitled to recover from CMT damages sustained by Joon Park as a result of the wrongful acts of CMT in an amount subject to proof at trial.

11. The infringement of the exclusive rights of Joon Park has caused irreparable harm to Joon Park for which there is no adequate remedy at law, and unless enjoined by this Court CMT will continue to infringe the rights of Joon Park.

12. CMT was informed of the charge of infringement of the '988 and '814 patents by letter from counsel for Joon Park to CMT as indicated in Paragraph 7, yet chose to continue to infringe the patents in blatant disregard of the patent rights of Joon Park. The infringement by CMT of the '814 and '988 patents is willful and deliberate and entitles Joon Park to increased damages under 35 U.S.C. § 284 and to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. §285.

DEMAND FOR JURY TRIAL

Joon Park demands trial by jury on all issues triable by a jury.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff Joon Park requests entry of judgment in its favor against CMT as follows:

A. A declaration that CMT has infringed United States Patent Nos. 7,134,814 and 6,637,988.

B. A preliminary and permanent injunction enjoining CMT and its officers, agents, employees, and those acting in privity with it, from further infringement,

1 contributory infringement and/or inducing infringement of U.S. Patent Nos. 7,134,814 and
2 6,637,988.

3 C. An award of damages arising out of the infringement of U.S. Patent Nos.
4 7,134,814 and 6,637,988 by CMT including enhanced damages pursuant to 35 U.S.C. §
5 284, together with prejudgment and post-judgment interest in an amount according to
6 proof.

7 D. An award of attorneys' fees pursuant to 35 U.S.C. § 285 or as otherwise
8 permitted by law.

9 E. For such other costs and further relief as this Court may deem just and
10 proper.

11 Dated this 11th day of April 2008.

12 Respectfully submitted,

13 THE ADAMS LAW FIRM

14
15
16 By 

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US006638B1

(12) **United States Patent**
Park

(10) **Patent No.:** **US 6,637,988 B1**

(45) **Date of Patent:** **Oct. 28, 2003**

(54) **ADJUSTABLE POCKET DRILLING FIXTURE**

(76) **Inventor:** **Joon Park**, 1320 Virginia Ave.,
 Glendale, CA (US) 91202

(*) **Notice:** Subject to any disclaimer, the term of this
 patent is extended or adjusted under 35
 U.S.C. 154(b) by 132 days.

(21) **Appl. No.:** **10/001,774**

(22) **Filed:** **Nov. 15, 2001**

(51) **Int. Cl.:** **B23B 49/00**

(52) **U.S. Cl.:** **408/103; 408/115 R**

(58) **Field of Search:** **408/97, 103, 115 R**

(56) **References Cited**

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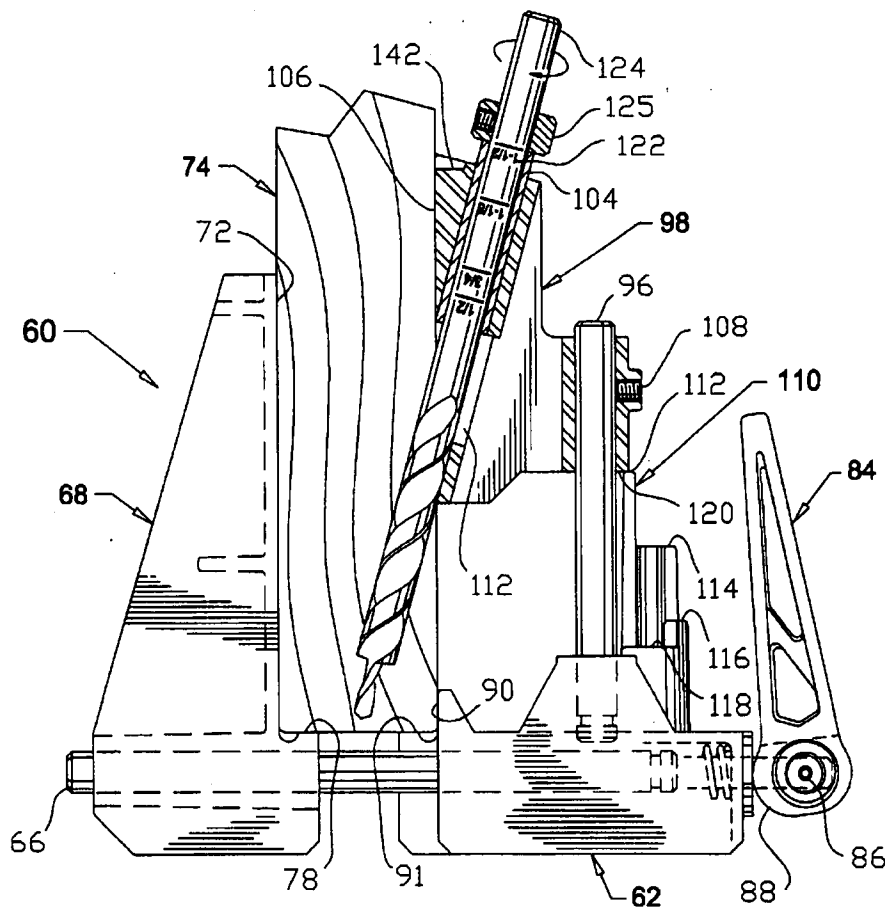
Primary Examiner—Daniel W. Howell

(74) *Attorney, Agent, or Firm*—Allen A. Dicke, Jr.

(57) **ABSTRACT**

The pocket drilling fixture has a clamp base with a clamp face thereon. Opposing it is a clamp body with an opposing clamp face. Clamp structure, including a clamp arm on the base urges the faces together to clamp over a workpiece therebetween in a clamping direction. A guide carrier is mounted on the base to move in the direction at a right angle to the clamping direction. The base has a turret thereon with stops which can be positioned beneath the guide carrier to set its height above the base so that height can be preselected, depending on the workpiece thickness.

21 Claims, 3 Drawing Sheets



PENGAD 800-631-6939

EXHIBIT

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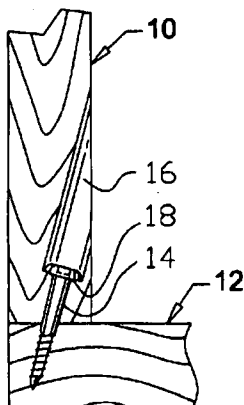


FIG. 2

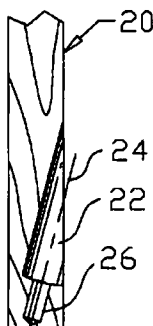


FIG. 3

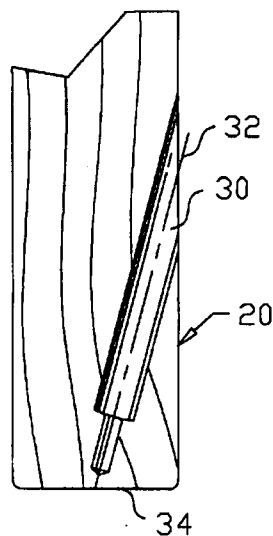


FIG. 4

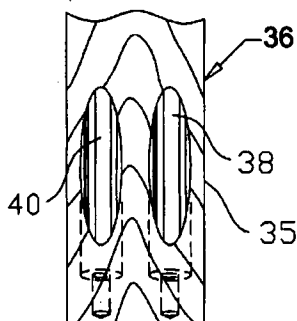


FIG. 5

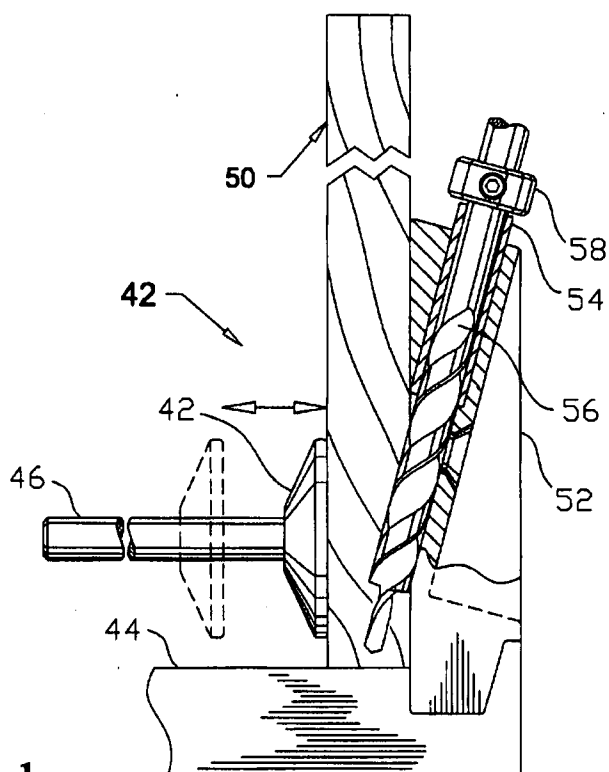


FIG. 1

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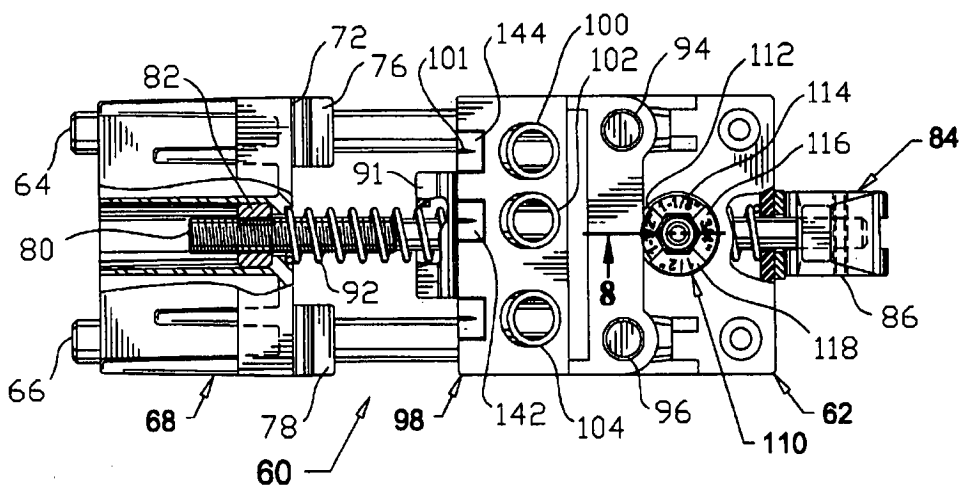


FIG. 6

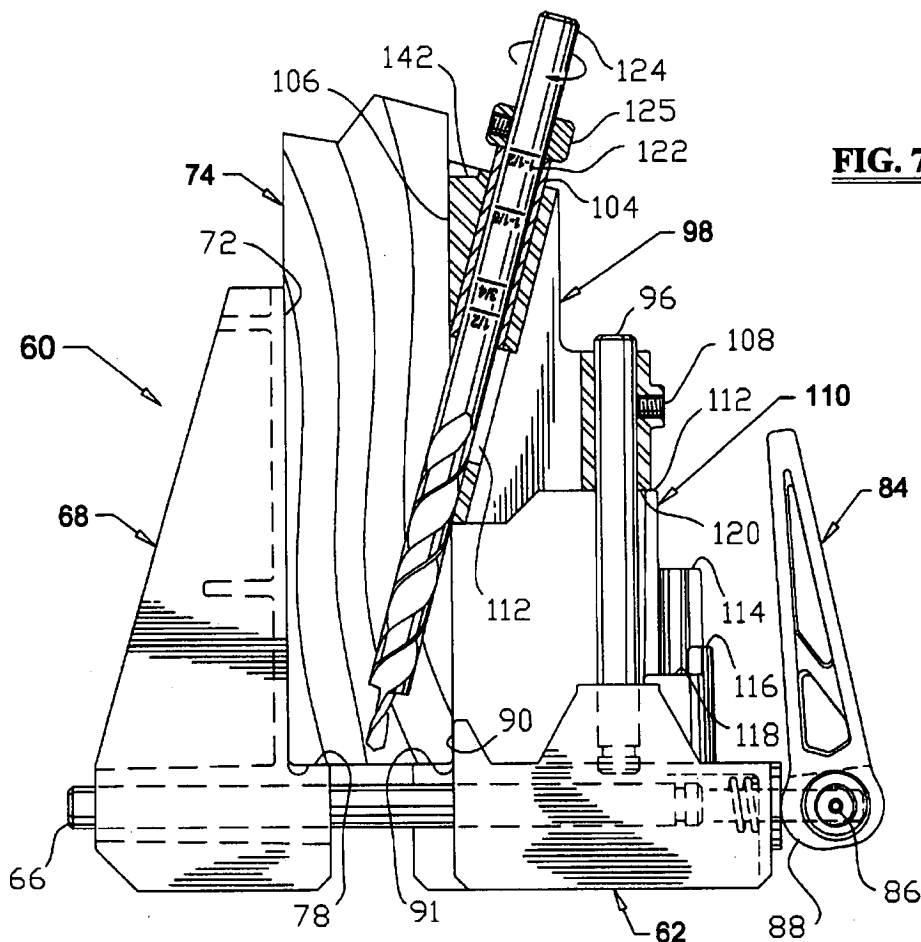


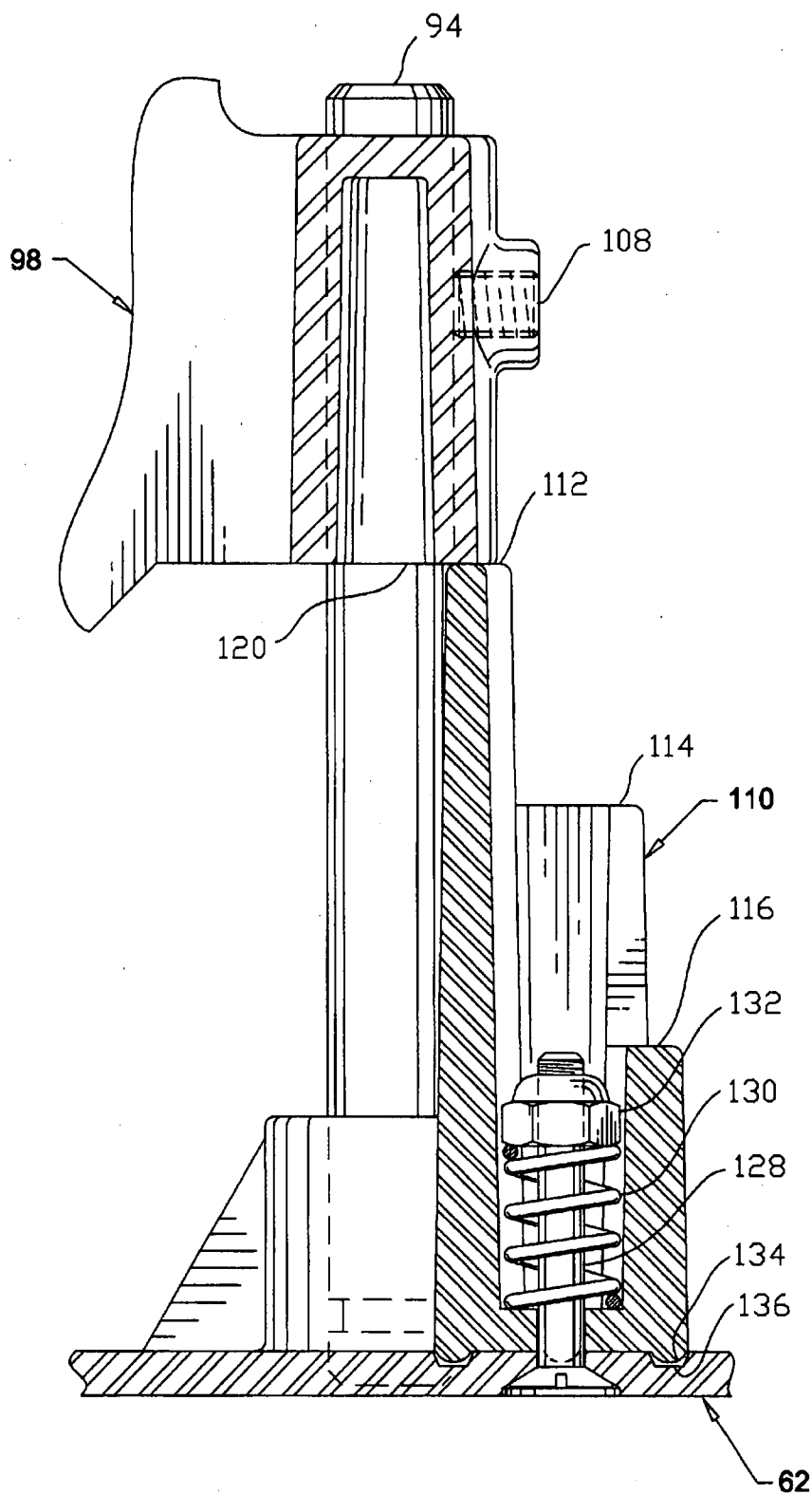
FIG. 7

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**FIG. 8**

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ADJUSTABLE POCKET DRILLING FIXTURE**FIELD OF THE INVENTION**

This invention is directed to a fixture which permits pocket drilling in wood workpieces in various setups.

BACKGROUND OF THE INVENTION

Two wood workpieces are sometimes fastened together by means of a pocket joint. A pocket joint is a pocket hole in the first piece, with a screw in the pocket hole extending into the second workpiece. A pocket hole is one that is made at an angle in a first piece of wood, entering from the side and exiting out of the edge. Usually, the pocket is sufficiently large to fully contain the head of the screw so that, when the screw is recessed in the hole, it is not exposed.

SUMMARY OF THE INVENTION

In order to aid in the understanding of this invention, it can be stated in essentially summary form that it is directed to a pocket drilling hole fixture which has a base. The base carries a first clamp face. Movably mounted with respect to the base is a clamp jaw with a second clamp face. The actuator to draw the clamp jaw toward the first clamp face on the base is mounted on the base. Also mounted on the base is a drill guide carrier. The drill guide carrier has a drill guide hole. The drill guide carrier is adjustably mounted with respect to the base so that it can be moved to selected positions with respect to the base.

It is thus a purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture which has both the clamp actuator and the pocket drilling guide hole on the same side of the fixture so that the user can apply the adjustable pocket drilling fixture to a workpiece and both clamp and drill from the same side of the workpiece.

It is another purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture which can be quickly and easily applied to the edge of a workpiece for the accurate drilling of a pocket hole.

It is another purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture wherein the position of the drill guide carrier can be selectively positioned with respect to the base of the pocket drilling fixture so as to permit the pocket hole to be drilled at different selected heights, but at the same angle so as to enable selection of the position at the bottom edge of the workpiece in which the pocket hole will exit.

It is another purpose and advantage of this invention to provide a movably adjustable drill guide carrier so that the position in which the angular pocket hole is drilled in the side of the workpiece can be selected from discrete positions so as to select a position at which the hole is drilled for different thickness of the workpiece.

Other purposes and advantages of this invention will become apparent from a study of the following portion of the specification, the claims and the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a side-elevational view of one example of the prior art, with parts broken away substantially on a section line through the axis of the drill guide.

FIG. 2 is a section through first and second wood workpieces wherein the workpieces are joined by a wood screw in a pocket hole in the first workpiece and showing the

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height of the pocket hole on the side of the first workpiece which is of nominal $\frac{3}{4}$ inch thickness.

FIG. 3 is a section through a first workpiece at the point at which a pocket hole is drilled, showing the lower entry of the pocket hole for a first workpiece of lesser nominal thickness; for example, $\frac{1}{2}$ inch.

FIG. 4 is similar to FIG. 2, but showing the position of entry of the pocket hole in a first workpiece having a nominal $1\frac{1}{2}$ inch thickness.

FIG. 5 is a front view of a first workpiece showing two pocket holes drilled adjacent each other.

FIG. 6 is a plan view of the adjustable pocket drilling fixture of this invention.

FIG. 7 is a side-elevational view thereof, with parts broken away substantially along the center line of one of the drill guides.

FIG. 8 is an enlarged section taken generally along the line 8—8 of FIG. 6, showing the turret which establishes the guide carrier height.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

FIG. 2 shows a first workpiece 10 which is to be fastened to the second workpiece 12 in the present example. This fastening is to be accomplished by means of a wood screw 14 which is installed in pocket 16. The pocket 16 has a larger diameter where it enters into the side wall of the first workpiece 10. The larger diameter is sufficient to receive the head 18 of the wood screw 14.

The pocket hole 16 also has an axially aligned smaller hole which receives the shank of the wood screw. When the wood screw is installed in the pocket, it exits out of the bottom edge of the first workpiece 10 and is screwed into the second workpiece 12. It is conventional to drill such pockets at 15 degrees with respect to the side surface of the first workpiece 10. As an illustration, the thickness of the workpiece 10 in the transverse direction of the sheet is $\frac{3}{4}$ inch. The criteria for drilling a pocket hole include the following requirements. The pocket hole 16 which accepts the head of the wood screw should be fully into the workpiece so that the screw head does not extend beyond the surface of the workpiece. In addition, the pocket hole must be sufficiently high so that the screw head has enough material to engage to provide a firm joint. Furthermore, the pilot drill hole 26 must be fully in the workpiece so that the screw shank is not exposed. When the workpiece is not as thick (for example, $\frac{1}{2}$ inch in thickness), the center line of the drilled pocket hole must come out further to the other side of workpiece 20 than the face of the wood into which the pocket hole 22 is drilled. To accomplish this, the entry of the drilled pocket hole is closer to the lower end of the workpiece. This is illustrated in FIG. 3 where the workpiece 20 is shown as being $\frac{1}{2}$ inch thick. Pocket hole 22 is illustrated as being started high enough on the workpiece so that the axis 24 of the pocket drill bit exits the lower edge of the workpiece and the pocket hole can fully receive the head of the screw. In FIG. 3, the pilot drill hole 26 is also seen. Thus, with the drill axis fixed at 15 degrees, the entry height is suitably adjusted to accomplish the goals of fully receiving the head while exiting out of the lower edge of the workpiece.

In FIG. 4, the workpiece 28 is scaled to be $1\frac{1}{2}$ inches thick. The pocket 30 is started high enough on the side of the workpiece so that the drill axis 32 intersects the bottom edge surface 34 substantially at its mid-point, similarly to that shown in FIG. 2. By this adjustment, a suitably designed

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pocket drilling fixture can be positioned so that the pocket drill axis intersects the bottom surface, the drill pocket fully accepts the screw head and there is sufficient material below the drill pocket so that the screw can strongly attach the workpiece with the drill pocket therein. These requirements must also be balanced with the height of the entry point of the pocket drill hole and the side of the workpiece.

On some occasions, it is desirable to drill a plurality of pocket holes for fastening with a plurality of screws. The workpiece 36 shown in FIG. 5 is seen from the side into which first and second pocket holes 38 and 40 are drilled parallel to each other. The distance between the plurality of pocket holes can vary depending upon the width of the workpiece into which they are drilled.

FIG. 1 shows a prior art pocket drilling fixture 42 which has a clamp portion 44 on which is mounted a piston 46 which carries a foot 48 which engages against the workpiece 50. The piston has a mounting bracket and a lever to press the workpiece to the right. Mounted on the clamp portion 44 is guide portion 52. The workpiece 50 is clamped against the guide portion 52. The guide portion includes a drill guide channel 54. A drill 56 is introduced through the drill guide channel to drill the pocket hole in the workpiece 50. A stop collar 58 stops the advance of the drill at a point determined by the positioning of the stop collar.

One of the problems of this prior art structure is that the clamping is on one side of the workpiece and the drilling is on the other. When the workpiece is large, the artisan must walk around the workpiece to perform the two different functions of clamping and drilling. This complicates the drilling of suitable pockets and leads to unnecessary waste of time.

The adjustable pocket drilling fixture 60 of this invention is shown in FIGS. 6 and 7. The fixture 60 has a base 62. Extending from the base are two guide bars 64 and 66. The guide bars are of uniform cross section and are illustrated as being cylindrical. The guide bars are secured in base 62 with their axes parallel.

Clamp body 68 has two holes therethrough which closely fit the guide bars 64 and 66, and the clamp body slides on the guide bars parallel to their axes. The clamp jaw is unitarily formed with the clamp body and extends upward from the guide bars. It has a clamp face 72 which can engage against the workpiece 74. The clamp face 72 is at a right angle with respect to the plane defined by the axes of guide bars 64 and 66. The clamp body 68 also has feet 76 and 78 formed thereon just above the openings for the guide bars. These feet act as stops against which the workpiece 74 engages.

The clamp body 68 is urged toward the base 62 by means of a clamp screw 80, which engages in a threaded nut 82 positioned in the clamp body 68 between the guide holes through the clamp body. The nut 82 and screw 80 preferably lie in the same plane as the guide bars 64 and 66. At the right end, the clamp arm 84 is pivoted on the screw 80 by means of cross pivot pin 86. The cam 88 of the clamp arm 84 has a larger radius toward the base 62 when the clamp arm 84 is in the raised position shown in FIG. 7. Thus, when the clamp arm is raised from the horizontal position to the raised position of FIG. 7, the screw 80 is pulled to the right. This moves clamp body 68 to the right.

Base 62 has a clamp face 90 thereon against which the workpiece 74 is thrust when the clamp is engaged. Base 62 also has a foot 91 upon which the edge of the workpiece rests. Adjustment of the clamp to accommodate different thicknesses of workpiece can be accomplished by rotating

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the clamp arm 84 down to the horizontal position and rotating the handle and screw 80 until the correct adjustment is achieved. Compression spring 92 urges the clamp body 68 left to the disengaged position when the clamp arm 84 is released.

First and second upright guide bars 94 and 96 are mounted in base 62, and these bars are positioned at a right angle to the guide bars 64 and 66. Guide bars 94 and 96 are parallel and of uniform cross section to serve as upright guides for guide carrier 98. The guide carrier 98 supports thereon three drill guide bushings 100, 102 and 104. The reference indicia 101, 103 and 105 are respectively placed in line with the axes of the drill guide bushings 100, 102 and 104, respectively. The placement of the drill guide bushings and indicia at different spacings permit the artisan to drill two pocket openings on the same setup and to choose between three different spacings between the two drill pocket holes.

As seen in FIG. 7, the drill guide bushings are at the usual angle of 15 degrees with respect to the vertical when the vertical is defined by the upright guide bars 94 and 96, and horizontal is defined by the guide bars 64 and 66. The guide carrier 98 has a clamp face 106 thereon which also engages against the workpiece 74 to hold it in place in the clamped position between the clamp faces. As seen in FIG. 7, guide carrier 98 has a chip opening 126 which permits the chips to clear during the drilling operation.

The guide carrier is movable up and down with upright guide bars 94 and 96. It can be secured at any selected position by tightening of the set screw 108 seen in FIG. 7. Height can be established by means of a turret 110 which is rotatably mounted on the base 62 over the clamp screw 80 and just to the right of guide carrier 98. The turret 110 has four different height sections with the first and highest having a top surface 112, a second height section having a height surface 114, a third height having a top surface 116, and the lowest step having a top surface 118. The turret can be rotated so that any one of these surfaces can engage under the bottom surface 120 of the guide carrier 98.

While the guide carrier can be adjusted to any desired height on its upright guide bars 94 and 96, the turret provides a way to set the height for particular thickness of the workpiece. For example, the lowest step 118 on the turret is suitable for a workpiece which is $\frac{1}{2}$ inch thick. This permits the proper positioning of the guide carrier to drill the pocket hole in a position, as described above. The height of surface 116 is suitable for a workpiece which is $\frac{3}{4}$ inch thick, and the height of the turret step 114 is suitable for a workpiece which is $1\frac{1}{4}$ inches thick. Similarly the height of the turret section 112 is suitable for a workpiece which is $1\frac{1}{2}$ inches thick. This presets the guide carrier height suitably to pocket-drill a workpiece of that thickness and come out at a suitable position at the edge of the workpiece. Thus, accurate setup height is quickly and easily achieved.

FIG. 8 shows the turret 110 rotatably mounted on the base 62. The turret rotates on shaft 128 and is held down onto the base by means of a compression spring 130, which is held in place by a nut 132. A detent mechanism comprises at least one bump 134 which extends into a recess 136. There are four such recesses 90 degrees apart, each corresponding to a position of a turret surface under the bottom surface 120 of the guide carrier 98.

When a workpiece 74 is to receive one or more pocket drill holes, the thickness of the workpiece is noted. Set screw 108 is loosened, and guide carrier 98 is raised. Turret 110 is rotated until the corresponding turret height surface is under the stop surface 120 on the bottom of the guide carrier.

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Rotation of the turret is easy because the spring 130 holds the detent bump down into the detent recess so that the turret can be raised and rotated. When the selected turret height is under the bottom surface on the guide carrier 98, the guide carrier is lowered and the set screw 108 is tightened for security. The workpiece 74 is put in place between the clamp faces 72 and 106 resting on the feet 76, 78 and 91. With the clamp arm 84 in the open, horizontal position, the arm is rotated on the axis of screw 80 until the clamp body 68 is almost clamped on the workpiece. Then the clamp arm is raised in the position shown in FIG. 7. This draws the screw 80 to the right by means of the cam action of cam surface 88 to clamp the workpiece 74 in place.

Next, the drill 124 is introduced into one or more of the drill guide bushings 100, 102 and/or 104. Whichever drill guide bushing is chosen is a function of the artisan's fastening needs. If two pocket drill holes are required, the artisan has a choice of three different spaces by choosing different pairs of the drill guide bushings. The rotating drill is introduced down through the drill guide bushings so that the workpiece is drilled. Chips are expelled from chip opening 126. Depth of drilling can be conveniently accomplished by observing the plural drill depth indicia 122 on the drill to control the depth of drilling as the pocket drilling is taking place.

If the artisan wants the pocket drill holes in particular places, he can scribe on the surface of the workpiece which lies against the guide carrier 98. He can then place the appropriate indicia 101, 103 or 105 at the scribe mark so that the pocket drill hole is properly positioned. These acts of positioning with respect to the guide marks, clamping and drilling are all accomplished at the same side of the workpiece 74. This is particularly important when the workpiece is large so that it is difficult to accomplish clamping and drilling functions if they are on opposite sides. When the pocket hole is drilled close to the end of the workpiece, it is important to know the relationship of the pocket hole to the workpiece. For this reason, in addition to the center line marking indicia 101, the position where the pocket holes will be drilled is shown by the indicia pockets 142 and 144, seen in FIG. 6. The width of the indicia pocket is equal to the pocket hole diameter. Further, FIG. 7 shows the indicia pockets as being recesses in the top surface of the guide carrier 98. With these indicia recesses visible, the artisan can make sure that the pocket hole will not intersect the end of the workpiece, but will be an adequate distance from it.

The depth of cutting is important because the pilot on the drill must reach or almost reach the bottom edge of the workpiece. The maximum amount of material between the shoulder on the drill and the bottom edge of the first workpiece is important for strength. It is also important that the pilot drill pocket be sufficiently deep so that it fully receives the head of the screw therein. Since the height of the drill carrier 98 is fixed by means of turret 110, the height of the drill guide bushing 104 is known. Thus, the depth of penetration can be regulated by marking a suitable indicia 122 on the drill 124. A suitable indicia is provided for each of the set heights of the guide carrier 98 which correspond to the settings of the turret 110. This kind of drill depth control is easier to use because no individual stop setting for each depth is required. Furthermore, it is more accurate for the same reason.

This invention has been described in its presently preferred best modes and it is clear that it is susceptible to numerous modifications, modes and embodiments within the ability of those skilled in the art and without the exercise of the inventive faculty. Accordingly, the scope of this invention is defined by the scope of the following claims.

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What is claimed is:

1. An adjustable pocket drilling fixture comprising:
 - a base, a clamping face on said base, said clamping face defining a plane;
 - a clamp body, a clamping face on said clamp body opposing said clamping face on said base;
 - clamping structure interengaging said clamp body and said base, said clamping structure including a clamp actuator positioned adjacent said base to move said clamp body in a clamping direction;
 - a guide carrier, at least one drill guide in said guide carrier, said drill guide having an axis which intersects said plane of said clamping face on said base, said guide carrier being slidably mounted on said base to move in a direction parallel to said plane; and
 - gaging structure between said base and said guide carrier so that said guide carrier can be positioned at a predetermined distance from said base.
2. The adjustable pocket drilling fixture of claim 1 wherein said gaging structure has a plurality of surfaces thereon, said gaging structure being movable with respect to said base so that one of said gaging structures can be positioned to gage the height of said guide carrier above said base.
3. The adjustable pocket drilling fixture of claim 2 wherein said gaging structure is a turret.
4. The adjustable pocket drilling fixture of claim 3 wherein said turret is rotatably mounted on said base, said turret having a plurality of said gaging surfaces thereon and being configured so that a selected one of gaging surfaces can be positioned under said guide carrier to space said guide carrier a predetermined position above said base.
5. The adjustable pocket drilling fixture of claim 4 wherein there is a detent interengaging between said turret and said base so that said turret is detented in its selected position.
6. The adjustable pocket drilling fixture of claim 1 wherein there is at least one upright guide bar mounted on said base, said upright guide bar being at a right angle to said clamping direction, said guide carrier being mounted on said upright guide bar for movement to a selected position above said base.
7. The adjustable pocket drilling fixture of claim 6 wherein there are first and second of said upright guide bars, said first and second upright guide bars defining a plane which is parallel to said clamping face.
8. The adjustable pocket drilling fixture of claim 7 wherein said gaging structure has a plurality of surfaces thereon, said gaging structure being moving with respect to said base so that one of said gaging structures can be positioned to gage the height of said guide carrier above said base.
9. The adjustable pocket drilling fixture of claim 1 wherein first and second clamp guide bars are mounted on said base and said clamp body is slidably mounted on said clamp guide bars, said clamp guide bars defining a plane which is perpendicular to the plane of said clamping face.
10. The adjustable pocket drilling fixture of claim 9 wherein said clamping structure comprises a screw and a nut, said screw engaging in said nut, said clamp actuator being connected to rotate said screw with respect to said nut to adjust the distance between said clamp faces, said clamp actuator engaging with respect to said base so that it is on the same side of said clamp faces as said guide carrier.
11. The adjustable pocket drilling fixture of claim 10 wherein said clamp body has at least one foot thereon and

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said base has at least one foot thereon, said feet lying in the same plane which is substantially parallel to said clamp guide bars and parallel to the clamping direction.

12. An adjustable pocket drilling fixture comprising:

a base, a substantially planar clamping face on said base; 5
a clamp body, a clamping face on said body facing said clamp face on said base;

clamping structure interengaging said base and said clamp body to move said clamp body toward said base;

a guide carrier movably mounted on said base to move 10
substantially parallel to said clamping faces;

measuring structure selectively positionable between said base and said guide carrier so that said guide carrier can be positioned a selected distance above said base so 15
that the position of a pocket hole to be drilled in a workpiece engaged between said clamping faces can be selected.

13. The adjustable pocket drilling fixture of claim 12 wherein said measuring structure is a turret having a plurality of stops thereon, said turret being movably mounted to 20
place a selected stop to position said guide carrier at a preselected height above said base.

14. The adjustable pocket drilling fixture of claim 13 wherein said turret is rotatably mounted on said base. 25

15. The adjustable pocket drilling fixture of claim 13 wherein there is an upright guide bar mounted on said base and said guide carrier is mounted on said guide bar so that the direction of motion of said guide carrier is controlled by said guide bar in a direction substantially parallel to said 30
clamping face on said base.

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16. The adjustable pocket drilling fixture of claim 15 wherein said upright guide bar is fixed in said base and said guide carrier is movably mounted thereon and there is a lock interengaging between said guide carrier and said guide bar to lock said guide carrier in a selected position with respect to said base.

17. The adjustable pocket drilling fixture of claim 14 wherein said measuring structure is a turret having a plurality of stops thereon, said turret being movably mounted to place a selected stop to position said guide carrier at a preselected height above said base.

18. The adjustable pocket drilling fixture of claim 12 wherein there is a plurality of drill guides in said guide carrier so that a plurality of pocket holes can be drilled at one setup.

19. The adjustable pocket drilling fixture of claim 12 wherein there is at least one drill guide in said drill guide carrier and there is indicia on said drill guide carrier showing the position of said drill guide.

20. The adjustable pocket drilling fixture of claim 12 wherein said clamp actuator is on the same side of said clamping face of said base as is said guide carrier so that clamping and drilling can be accomplished on the same side of the workpiece.

21. The adjustable pocket drilling fixture of claim 12 wherein there is at least one drill guide in said drill guide carrier and there is a pocket drill having drill depth indicia thereon so that depth of drilling can be controlled by relating the position of said drill with said drill guide.

* * * * *



US007134814B1

(12) **United States Patent**
Park

(10) **Patent No.:** **US 7,134,814 B1**(45) **Date of Patent:** **Nov. 14, 2006**(54) **ADJUSTABLE POCKET DRILLING FIXTURE**(76) **Inventor:** **Joon Park**, 1320 Virginia Ave.,
Glendale, CA (US) 91202(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 360 days.(21) **Appl. No.:** **10/668,659**(22) **Filed:** **Sep. 23, 2003****Related U.S. Application Data**(63) Continuation-in-part of application No. 10/001,774,
filed on Nov. 15, 2001, now Pat. No. 6,637,988.(51) **Int. Cl.**
B23B 47/28 (2006.01)(52) **U.S. Cl.** **408/103; 408/115 R**(58) **Field of Classification Search** **408/728,**
408/97, 103, 115 R, 115 B, 241 B
See application file for complete search history.(56) **References Cited****U.S. PATENT DOCUMENTS**

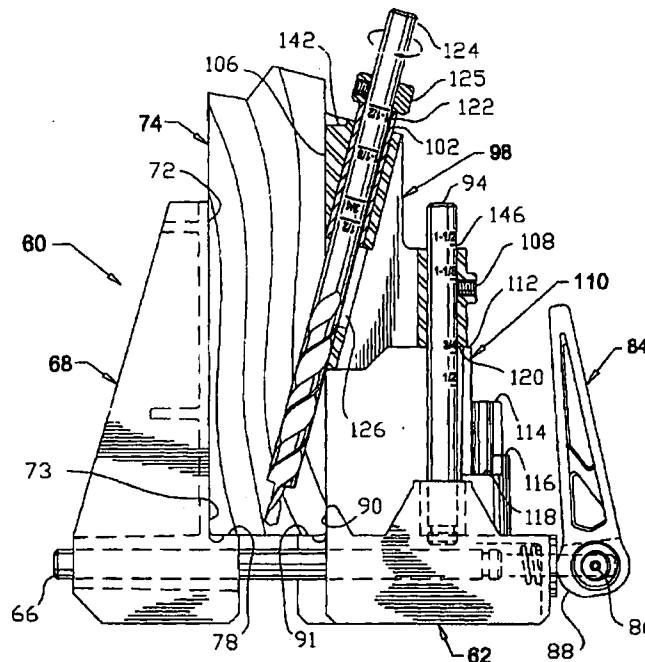
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Primary Examiner—Daniel W. Howell(74) *Attorney, Agent, or Firm*—Christie, Parker & Hale,
LLP(57) **ABSTRACT**

A pocket drilling fixture has a clamp base with a clamping face formed thereon. Opposing the clamp base is a clamp body with an opposing clamping face. Clamp structure interengages the clamp body and the base. The clamp structure includes a clamp actuator positioned adjacent to the base to move the clamp body in a clamping direction. A guide carrier has at least one drill guide disposed therein, and has an axis which intersects a plane defined by the clamping face. The guide carrier is mounted on the base to move in the direction parallel to the plane. The base may have formed thereon a turret having multiple surfaces for height adjustment. The turret may be positioned under the guide carrier to set its height above the base so that height can be preselected, depending on the workpiece thickness.

12 Claims, 4 Drawing Sheets**EXHIBIT****2**

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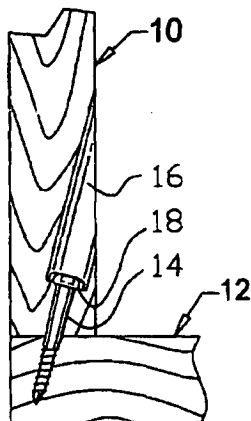


FIG. 1

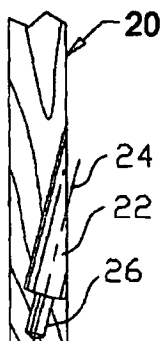


FIG. 2

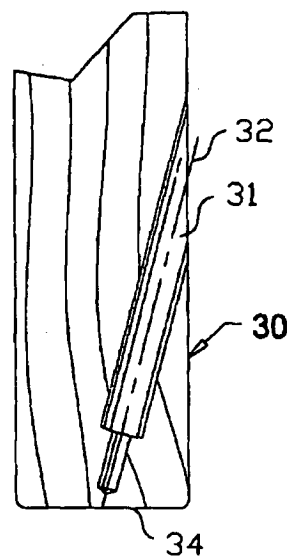


FIG. 3

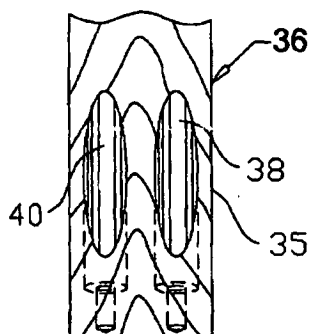


FIG. 4

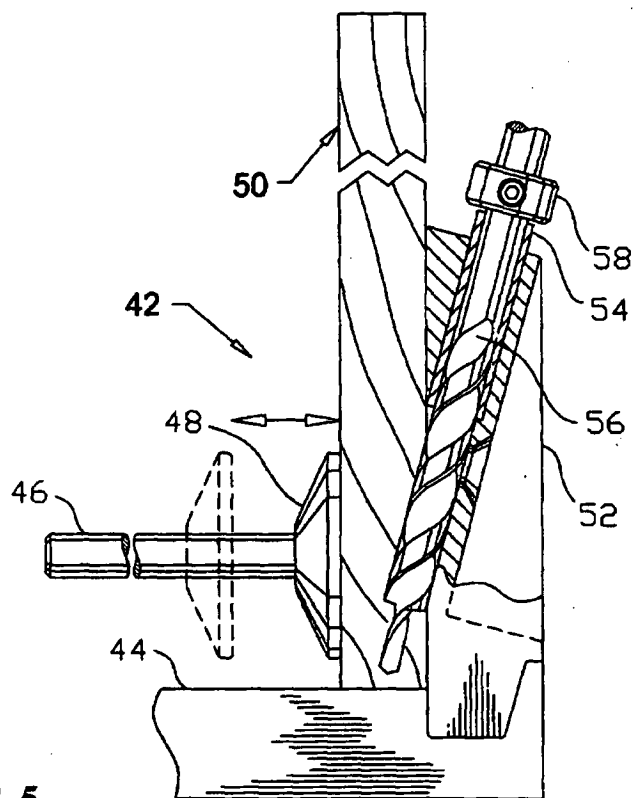


FIG. 5

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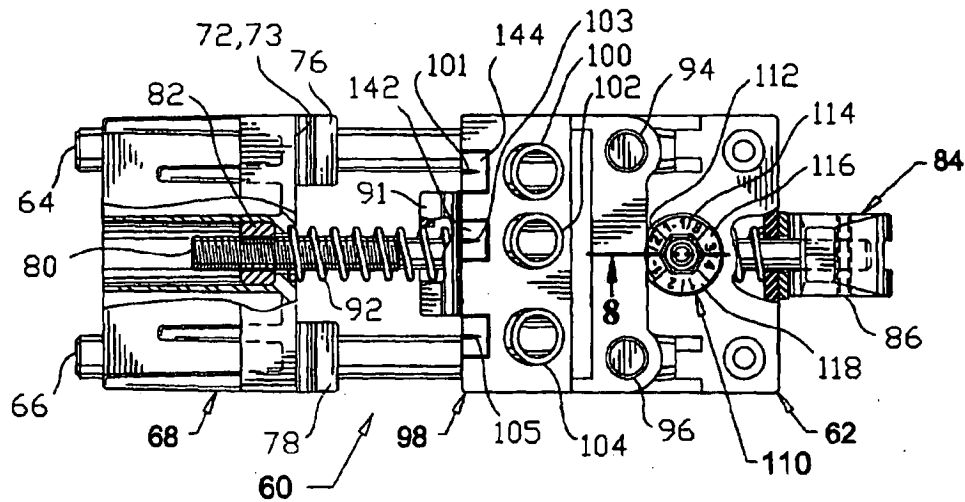


FIG. 6

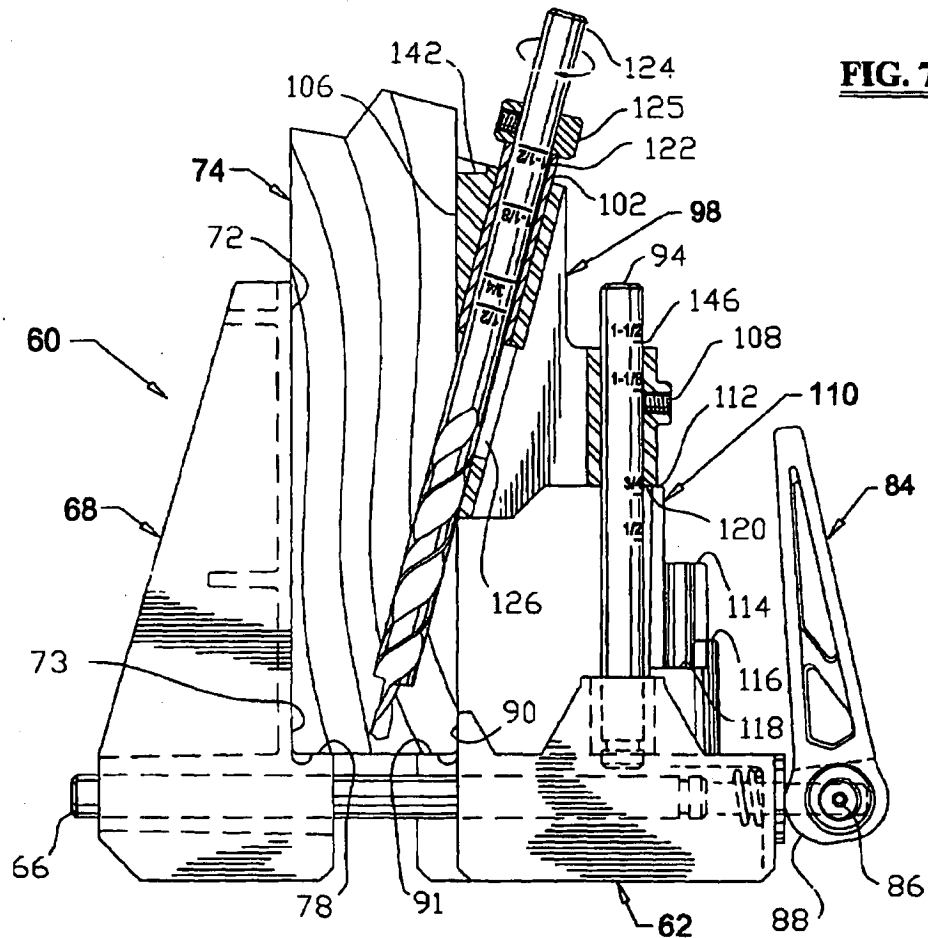


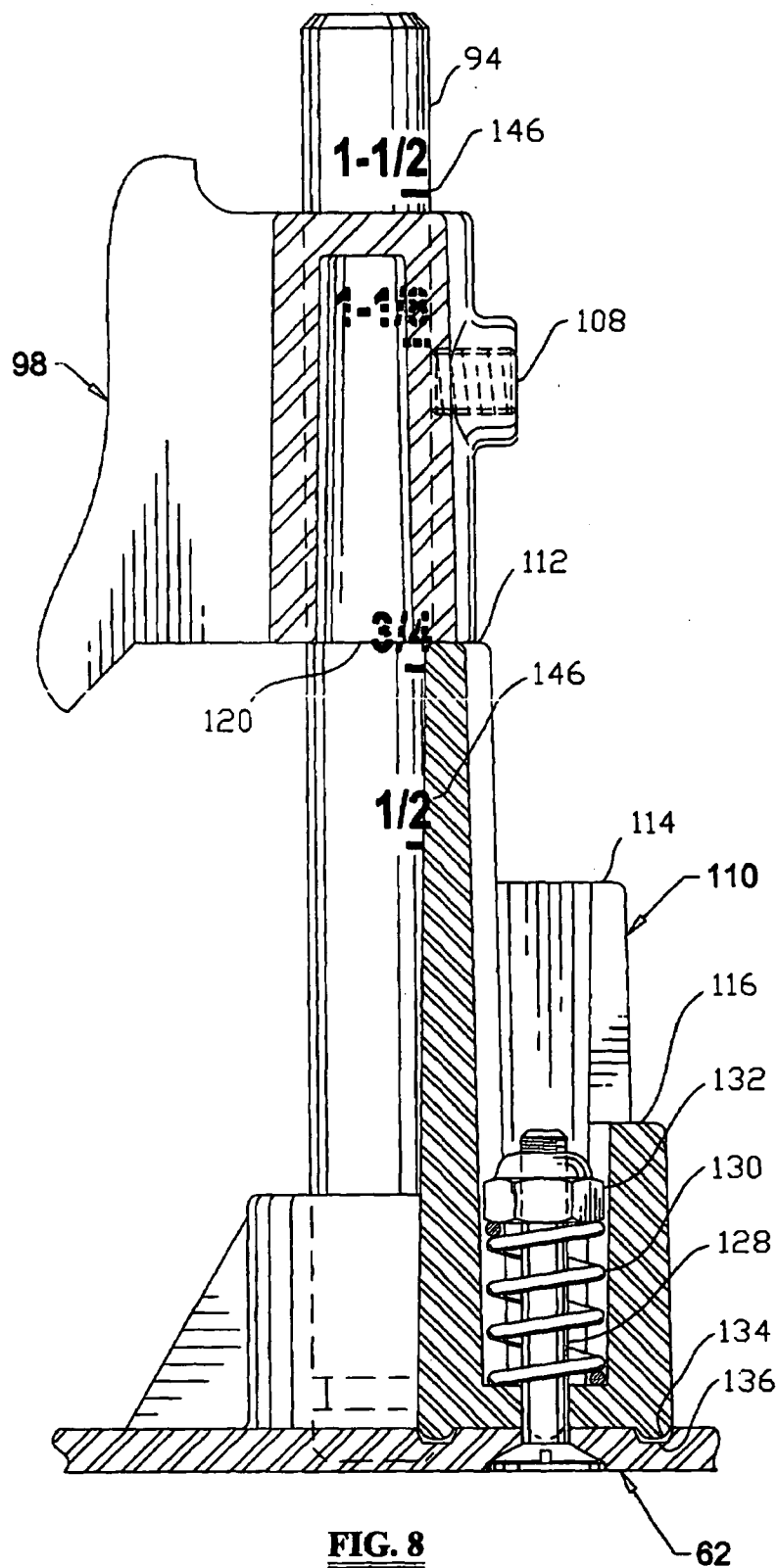
FIG. 7

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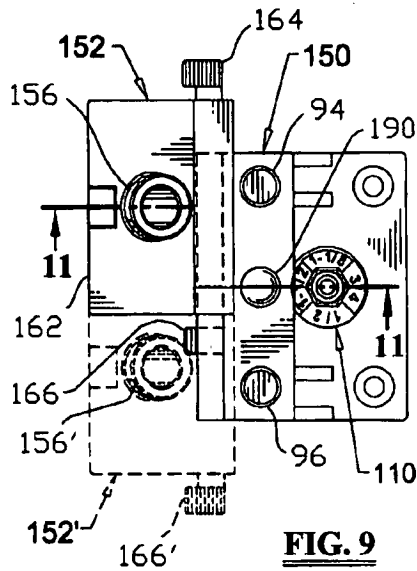


FIG. 9

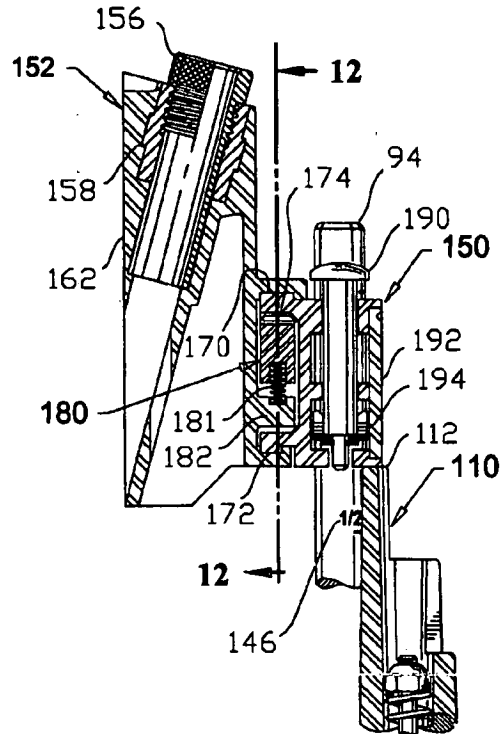


FIG. 11

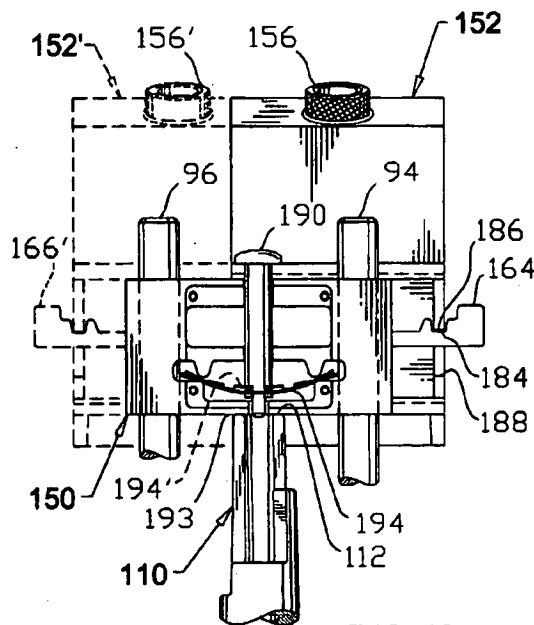


FIG. 10

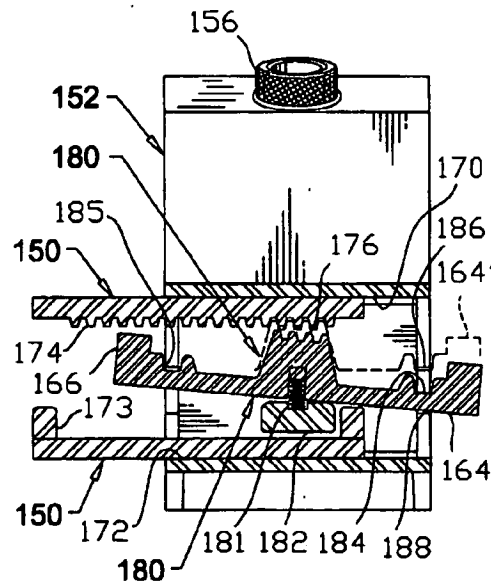


FIG. 12

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ADJUSTABLE POCKET DRILLING FIXTURE**CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a continuation-in-part (CIP) of U.S. patent application Ser. No. 10/001,774 entitled "Adjustable Pocket Drilling Fixture" filed Nov. 15, 2001 now U.S. Pat. No. 6,637,988, the contents of which are fully incorporated by reference herein.

FIELD OF THE INVENTION

This invention is directed to a fixture which permits pocket drilling in wood workpieces in various setups.

BACKGROUND OF THE INVENTION

Two wood workpieces are sometimes fastened together by means of a pocket joint. A pocket joint is a pocket hole in the first piece, with a screw in the pocket hole extending into the second workpiece. A pocket hole is one that is made at an angle in a first piece of wood, entering from the side and exiting out of the edge. Usually, the pocket is sufficiently large to fully contain the head of the screw so that, when the screw is recessed in the hole, it is not exposed.

SUMMARY OF THE INVENTION

In order to aid in the understanding of this invention, it can be stated in essentially summary form that it is directed to a pocket drilling hole fixture that has a base. The base carries a first clamp face. Movably mounted with respect to the base is a clamp jaw with a second clamp face. The actuator to draw the clamp jaw toward the first clamp face on the base is mounted on the base. Also mounted on the base is a drill guide carrier. The drill guide carrier has a drill guide hole. The drill guide carrier is adjustably mounted with respect to the base so that it can be moved to selected positions with respect to the base.

It is thus a purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture which has both the clamp actuator and the pocket drilling guide hole on the same side of the fixture so that the user can apply the adjustable pocket drilling fixture to a workpiece and both clamp and drill from the same side of the workpiece.

It is another purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture that can be quickly and easily applied to the edge of a workpiece for the accurate drilling of a pocket hole.

It is another purpose and advantage of this invention to provide a movably adjustable pocket drilling fixture wherein the position of the drill guide carrier can be selectively positioned with respect to the base of the pocket drilling fixture so as to permit the pocket hole to be drilled at different selected heights, but at the same angle so as to enable selection of the position at the bottom edge of the workpiece in which the pocket hole will exit.

It is another purpose and advantage of this invention to provide a movably adjustable drill guide carrier so that the position in which the angular pocket hole is drilled in the side of the workpiece can be selected from any positions so as to select a position at which the hole is drilled for different thickness of the workpiece.

It is another purpose and advantage of this invention to provide a quick movement of the drill guide carrier from and on the carrier support horizontally/laterally so as to drill at

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least two pocket holes at different locations without exiting/entering the drill bit and unclamping/clamping the work-piece.

Other purposes and advantages of this invention will become apparent from a study of the following portion of the specification, the claims and the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a section through first and second wood workpieces wherein the workpieces are joined by a wood screw in a pocket hole in the first workpiece and showing the height of the pocket hole on the side of the first workpiece that is of nominal $\frac{3}{4}$ inch thickness.

FIG. 2 is a section through a first workpiece at the point at which a pocket hole is drilled, showing the lower entry of the pocket hole for a first workpiece of lesser nominal thickness; for example, $\frac{1}{2}$ inch.

FIG. 3 is similar to FIG. 2, but showing the position of entry of the pocket hole in a first workpiece having a nominal $1\frac{1}{2}$ inch thickness.

FIG. 4 is a front view of a first workpiece showing two pocket holes drilled adjacent each other.

FIG. 5 is a side-elevational view of one example of the prior art, with parts broken away substantially on a section line through the axis of the drill guide.

FIG. 6 is a plan view of the adjustable pocket drilling fixture of this invention.

FIG. 7 is a side-elevational view thereof, with parts broken away substantially along the centerline of one of the drill guides.

FIG. 8 is an enlarged section taken generally along the line 8—8 of FIG. 6, showing the turret that establishes the guide carrier height.

FIG. 9 is a partial plan view of an adjustable pocket drilling fixture according to another exemplary embodiment of the present invention, showing a slidable guide carrier mounted on a drill guide carrier support.

FIG. 10 is a rear view of the adjustable pocket drilling fixture of FIG. 9, showing snap height adjustment mechanism (for the drill guide carrier support).

FIG. 11 is a sectional view taken generally along the line 11—11 of FIG. 9, showing the relationship between the guide carrier and the guide carrier support.

FIG. 12 is a sectional view taken generally along the line 12—12 of FIG. 11, showing the shuttle mechanism that enables the guide carrier to move from and on the guide carrier support.

DETAILED DESCRIPTION

FIG. 1 shows a first workpiece 10 that is to be fastened to the second workpiece 12 in the present example. This fastening is to be accomplished by means of a wood screw 14 that is installed in pocket 16. The pocket 16 has a larger diameter where it enters into the sidewall of the first workpiece 10. The larger diameter is sufficient to receive the head 18 of the wood screw 14.

The pocket hole 16 also has an axially aligned smaller hole that receives the shank of the wood screw. When the wood screw is installed in the pocket, it exits out of the bottom edge of the first workpiece 10 and is screwed into the second workpiece 12. It is conventional to drill such pockets at 15 degrees with respect to the side surface of the first workpiece 10. As an illustration, the thickness of the workpiece 10 in the transverse direction of the sheet is $\frac{3}{4}$ inch. The criteria for drilling a pocket hole include the following

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requirements. The pocket hole 16 that accepts the head of the wood screw should be fully into the workpiece so that the screw head does not extend beyond the surface of the workpiece. In addition, the pocket hole must be sufficiently high so that the screw head has enough material to engage to provide a firm joint. Furthermore, the pilot drill hole 26 must be fully in the workpiece so that the screw shank is not exposed. When the workpiece is not as thick (for example, 1/2 inch in thickness), the center line of the drilled pocket hole must come out further to the other side of workpiece 20 than the face of the wood into which the pocket hole 22 is drilled. To accomplish this, the entry of the drilled pocket hole is closer to the lower end of the workpiece. This is illustrated in FIG. 2 where the workpiece 20 is shown as being 1/2 inch thick. Pocket hole 22 is illustrated as being started high enough on the workpiece so that the axis 24 of the pocket drill bit exits the lower edge of the workpiece and the pocket hole can fully receive the head of the screw. In FIG. 2, the pilot drill hole 26 is also seen. Thus, with the drill axis fixed at 15 degrees, the entry height is suitably adjusted to accomplish the goals of fully receiving the head while exiting out of the lower edge of the workpiece.

In FIG. 3, the workpiece 30 is scaled to be 1-1/2 inches thick. The pocket 32 is started high enough on the side of the workpiece so that the drill axis 32 intersects the bottom edge surface 34 substantially at its mid-point, similarly to that shown in FIG. 2. By this adjustment, a suitably designed pocket drilling fixture can be positioned so that the pocket drill axis intersects the bottom surface, the drill pocket fully accepts the screw head and there is sufficient material below the drill pocket so that the screw can strongly attach the workpiece with the drill pocket therein. These requirements must also be balanced with the height of the entry point of the pocket drill hole and the side of the workpiece.

On some occasions, it is desirable to drill a plurality of pocket holes for fastening with a plurality of screws. The workpiece 36 shown in FIG. 4 is seen from the side into which first and second pocket holes 38 and 40 are drilled parallel to each other. The distance between the plurality of pocket holes can vary depending upon the width of the workpiece into which they are drilled.

FIG. 5 shows a prior art pocket drilling fixture 42 which has a clamp portion 44 on which is mounted a piston 46 which carries a foot 48 which engages against the workpiece 50. The piston has a mounting bracket and a lever to press the workpiece to the right. Mounted on the clamp portion 44 is guide portion 52. The workpiece 50 is clamped against the guide portion 52. The guide portion includes a drill guide channel 54. A drill 56 is introduced through the drill guide channel to drill the pocket hole in the workpiece 50. A stop collar 58 stops the advance of the drill at a point determined by the positioning of the stop collar.

One of the problems of this prior art structure is that the clamping is on one side of the workpiece and the drilling is on the other. When the workpiece is large, the artisan must walk around the workpiece to perform the two different functions of clamping and drilling. This complicates the drilling of suitable pockets and leads to unnecessary waste of time.

An adjustable pocket drilling fixture 60 according to an exemplary embodiment of the present invention is shown in FIGS. 6 and 7. The fixture 60 has a base 62. Extending from the base are two guide bars 64 and 66. The guide bars are of uniform cross section and are illustrated as being cylindrical. In other embodiments, the guide bars may have other shapes and/or cross sections. The guide bars are secured in base 62 with their axes substantially parallel.

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Clamp body 68 has two holes formed therethrough that closely fit the guide bars 64 and 66, and the clamp body slides on the guide bars substantially parallel to their axes. The clamp jaw is unitarily formed with the clamp body and extends upward from the guide bars. It has a clamping face 72 which can engage against the workpiece 74. The clamping face 72 is at substantially right angle with respect to the plane defined by the axes of guide bars 64 and 66. The clamp body 68 also has feet 76 and 78 formed thereon just above the openings for the guide bars. These feet act as stops against which the workpiece 74 engages.

The clamp body 68 is urged toward the base 62 by means of a clamp screw 80, which engages in a threaded nut 82 positioned in the clamp body 68 between the guide holes through the clamp body. The nut 82 and screw 80 preferably lie in the same plane as the guide bars 64 and 66. At the right end, the clamp arm 84 is pivoted on the screw 80 by means of cross pivot pin 86. The cam 88 of the clamp arm 84 has a larger radius toward the base 62 when the clamp arm 84 is in the raised position shown in FIG. 7. Thus, when the clamp arm is raised from the horizontal position to the raised position of FIG. 7, the screw 80 is pulled to the right. This moves clamp body 68 to the right.

Base 62 has a lower clamping face 90 formed thereon, against which the workpiece 74 is thrust when the clamp is engaged. Base 62 also has a foot 91 upon which the edge of the workpiece rests. Adjustment of the clamp to accommodate different thickness of workpiece can be accomplished by rotating the clamp arm 84 down to the horizontal position and rotating the handle and screw 80 until the correct adjustment is achieved. Compression spring 92 urges the clamp body 68 left to the disengaged position when the clamp arm 84 is released.

First and second upright guide bars 94 and 96 are mounted in base 62, and these bars are positioned at substantially right angle to the guide bars 64 and 66. Guide bars 94 and 96 are substantially parallel and of uniform cross section to serve as upright guides for guide carrier 98. The guide carrier 98 supports thereon three drill guide bushings 100, 102 and 104. The reference indicia 101, 103 and 105 are respectively placed in line with the axes of the drill guide bushings 100, 102 and 104, respectively. The placement of the drill guide bushings and indicia at different spacings permit the artisan to drill two pocket openings on the same setup and to choose between three different spacings between the two drill pocket holes.

As seen in FIG. 7, the drill guide bushings are at the usual angle of 15 degrees with respect to the vertical when the vertical is defined by the upright guide bars 94 and 96, and horizontal is defined by the guide bars 64 and 66. The guide carrier 98 has a clamping face 106 formed thereon which also engages against the workpiece 74 to hold it in place in the clamped position between the clamp faces. As seen in FIG. 7, guide carrier 98 has a chip opening 126 that permits the chips to clear during the drilling operation.

The guide carrier is movable up and down with upright guide bars 94 and 96. It can be secured at any selected position by tightening of the setscrew 108 seen in FIG. 7. Height can be established using a gauging structure, such as a turret 110 that is rotatably mounted on the base 62 over the clamp screw 80 and just to the right of guide carrier 98. The turret 110 has four different height sections with the first and highest having a top surface 112, a second height section having a height surface 114, a third height having a top surface 116, and the lowest step having a top surface 118.

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The turret can be rotated so that any one of these surfaces can engage under the bottom surface 120 of the guide carrier 98.

While the guide carrier can be adjusted to any desired height on its upright guide bars 94 and 96, the turret provides a way to set the height for particular thickness of the workpiece. For example, the lowest step 118 on the turret is suitable for a workpiece that is 1/2 inch thick. This permits the proper positioning of the guide carrier to drill the pocket hole in a position, as described above. The height of surface 116 is suitable for a workpiece that is 3/4 inch thick, and the height of the turret step 114 is suitable for a workpiece that is 1-1/8 inches thick. Similarly the height of the turret section 112 is suitable for a workpiece that is 1-1/2 inches thick. This presets the guide carrier height suitably to pocket-drill a workpiece of that thickness and come out at a suitable position at the edge of the workpiece. Thus, accurate setup height is quickly and easily achieved.

FIG. 8 shows the turret 110 rotatably mounted on the base 62. The turret rotates on shaft 128 and is held down onto the base by means of a compression spring 130, which is held in place by a nut 132. A detent mechanism comprises at least one bump 134 that extends into a recess 136. There are four such recesses 90 degrees apart, each corresponding to a position of a turret surface under the bottom surface 120 of the guide carrier 98.

When a workpiece 74 is to receive one or more pocket drill holes, the thickness of the workpiece is noted. Setscrew 108 is loosened, and guide carrier 98 is raised. Turret 110 is rotated until the corresponding turret height surface is under the stop surface 120 on the bottom of the guide carrier. Rotation of the turret is easy because the spring 130 holds the detent bump down into the detent recess so that the turret can be raised and rotated. When the selected turret height is under the bottom surface on the guide carrier 98, the guide carrier is lowered and the setscrew 108 is tightened for security. The workpiece 74 is put in place between the clamp faces 72 and 106 resting on the feet 76, 78 and 91. With the clamp arm 84 in the open, horizontal position, the arm is rotated on the axis of screw 80 until the clamp body 68 is almost clamped on the workpiece. Then the clamp arm is raised in the position shown in FIG. 7. This draws the screw 80 to the right by means of the cam action of cam surface 88 to clamp the workpiece 74 in place. In other embodiments, clamping means may include pneumatic actuator and wire cable that can be foot operated.

Next, the drill 124 is introduced into one or more of the drill guide bushings 100, 102 and/or 104. Whichever drill guide bushing is chosen is a function of the artisan's fastening needs. If two pocket drill holes are required, the artisan has a choice of three different spaces by choosing different pairs of the drill guide bushings. The rotating drill is introduced down through the drill guide bushings so that the workpiece is drilled. Chips are expelled from chip opening 126. Depth of drilling can be conveniently accomplished by observing the plural drill depth indicia 122 on the drill to control the depth of drilling as the pocket drilling is taking place.

If the artisan wants the pocket drill holes in particular places, he can scribe on the surface of the workpiece that lies against the guide carrier 98. He can then place the appropriate indicia 101, 103 or 105 at the scribe mark so that the pocket drill hole is properly positioned. These acts of positioning with respect to the guide marks, clamping and drilling are all accomplished at the same side of the workpiece 74. This is particularly important when the workpiece is large so that it is difficult to accomplish clamping and

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drilling functions if they are on opposite sides. When the pocket hole is drilled close to the end of the workpiece, it is important to know the relationship of the pocket hole to the workpiece. For this reason, in addition to the centerline marking indicia 101, the indicia pockets 142 and 144, seen in FIG. 6, show the position where the pocket holes will be drilled. The width of the indicia pocket is substantially equal to the pocket hole diameter, which is more useful than the centerline marking indicia 101. Further, FIG. 7 shows the indicia pockets as being recesses in the top surface of the guide carrier 98. With these indicia recesses visible, the artisan can make sure that the pocket hole will not intersect the end of the workpiece, but will be an adequate distance from it.

The depth of cutting is important because the pilot on the drill must reach or almost reach the bottom edge of the workpiece. The maximum amount of material between the shoulder on the drill and the bottom edge of the first workpiece is important for strength. It is also important that the pilot drill pocket be sufficiently deep so that it fully receives the head of the screw therein. Since the height of the drill guide carrier 98 is fixed by means of turret 110, the height of the drill guide bushing 104 is known. Thus, the depth of penetration can be regulated by marking suitable indicia 122 on the drill 124. A suitable indicia is provided for each of the set heights of the guide carrier 98 which correspond to the settings of the turret 110. This kind of drill depth control is easier to use because no individual stop setting for each depth is required. Furthermore, it is more accurate for the same reason.

FIG. 9 shows a drill guide carrier 152 that is slidable on a drill guide carrier support 150. The carrier support 150 is served by guide bars 94 and 96. The guide carrier 152 is slidable horizontally with respect to the carrier support 150 about upper and lower tongues 170 and 172 and grooves formed on the guide carrier 152 as shown in FIGS. 9-11. By pressing downward either a first or a second lever 164 or 166, pushing the guide carrier 152 to either direction and releasing the lever 164 or 166, the guide carrier 152 can be moved from a first position to a second position indicated by dotted lines 152' as shown in FIGS. 9 and 10.

An exemplary shuttle movement of the guide carrier is achieved using a positive detent mechanism as illustrated in FIG. 12. At the other end of the guide carrier 152, a detented teeth rack 174 is provided that can be engaged with a teeth detent 176 that is located at about the center of a lever assembly 180. A compression spring 181 and its support 182 are located between the upper and lower grooves on the opposite side of the clamping face 162, which pushes the teeth detent 176 and two side slots 184 to secure the lever assembly 180 into two side upper stops 186. The pressing down of the first lever 164 from initial position 164' forces to rotate the assembly 180 about an upper stop 185. This disengages the teeth portion 176 and the slot 184 from the teeth rack 174 and the upper stop 186 respectively. Further, movement of the guide carrier 152 with the lever down reaches to a position shown as dotted line position 152' and the guide carrier 152 will rest and maintain secure position by releasing the lever 164. The stroke adjustment from position of a drill guide bushing 156 to 156' can be adjusted by installation of setscrews in the extension 173 of the lower tongue 172, which stops at either sidewall of the spring support 182. It should be noted that the carrier support 150 is a stationary structure and the guide carrier 152 is slidable. Therefore, two drilling of pocket hole, as shown in FIG. 5, can be achieved without clamping/unclamping workpiece or entering/exiting the drill into the drill guide. In the described

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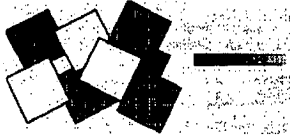
carrier with respect to said upright structure, and engaged to fix a position of said guide carrier with respect to said upright structure.

12. The adjustable pocket drilling fixture of claim 10, further comprising a linear ratchet mechanism which engages said guide carrier and said upright structure,

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wherein said linear ratchet mechanism can be unlocked to slide said guide carrier with respect to said upright structure, and locked to fix a position of said guide carrier with respect to said upright structure.

* * * * *



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February 28, 2008

Albert E. Guarnieri
401 South Tryon Street, Suite 3000
Charlotte, NC 28202

Via Federal Express

Re: Notice of Infringement of U.S. Patent Nos. 6,637,988 and 7,134,814

Dear Mr. Guarnieri:

We represent Mr. Joon Park in intellectual property matters. We understand that you are the agent for CMT USA, Inc.

In 2004, Mr. Park approached CMT offering a license under U.S. Patent No. 6,637,988 entitled Adjustable Pocket Drilling Fixture. He conversed with Mr. Ed Levy and Mr. Cliff Paddock. It is our understanding that after some relatively brief discussions, CMT decided not to acquire a license under the '988 patent but has continued to manufacture and sell pocket hole drilling fixtures (Model PP).

On November 14, 2006 U.S. Patent No. 7,134,814 was granted to Joon Park maturing from a continuation-in-part application based on the original application that matured into the '988 patent.

We have compared the claims of the '988 and '814 patents in reference to the above-identified products of your client and have concluded that the pocket hole drilling jigs sold by CMT infringe claims of both of these patents.

We have instituted a patent infringement suit against Kreg Tool Company, a competitor of CMT, in the United States District Court for the Southern District of California. A copy of that Complaint is attached. This letter informs you that we shall either join you in that suit, or bring suit at some later time, unless we can resolve this matter amicably. Mr. Park is willing to grant a patent license under both of these pocket hole drilling jig patents at a reasonable royalty rate to enable your client to continue sale of the above-identified jigs upon payment of back royalties for those units sold since the issue date of the earliest patent to issue.

PENGAD 800-631-6989

EXHIBIT

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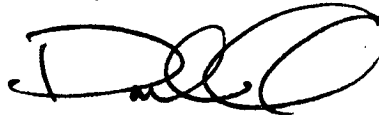
February 28, 2008
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If you are not prepared to accept a license under the patents, we remind you that given your client's knowledge of the '988 and '814 patents as evidenced by the discussions between Mr. Paddock and Mr. Park, we will hold your client responsible for willful infringement and enhanced damages.

We are prepared to give you adequate time to formulate your position with respect to this offer to license but given the prior familiarity of your client with the '988 patent, we expect your definitive responsive to this license offer no later than March 15, 2008.

If you would like to discuss any aspect of this matter with me prior to your written response, please feel free to give me a call.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Paul Adams', with a large, stylized loop at the end.

Paul Adams

JS 44 (Rev. 11/04)

CIVIL COVER SHEET

The JS 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings of other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. (SEE INSTRUCTIONS ON THE REVERSE OF THE FORM.)

I. (a) PLAINTIFFS

JOON PARK

(b) County of Residence of First Listed Plaintiff _____
(EXCEPT IN U.S. PLAINTIFF CASES)

(c) Attorney's (Firm Name, Address, and Telephone Number)

Paul Adams, 550 West C Street, Suite 2000, San Diego, CA 92101
(619) 241-4810

DEFENDANTS
CMT USA, INC.

08 APR 14 PM 12:27

CLERM. U.S. DISTRICT COURT
SOUTHERN DISTRICT OF CALIFORNIA

County of Residence of First Listed Defendant

(IN U.S. PLAINTIFF CASES ONLY)

NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE
LAND INVOLVED.

Attorneys (If Known)

08 CV 0668 BEN NLS

II. BASIS OF JURISDICTION (Place an "X" in One Box Only)

- ☐ 1 U.S. Government Plaintiff
☐ 2 U.S. Government Defendant
☒ 3 Federal Question (U.S. Government Not a Party)
☐ 4 Diversity (Indicate Citizenship of Parties in Item III)

III. CITIZENSHIP OF PRINCIPAL PARTIES (Place an "X" in One Box for Plaintiff and One Box for Defendant)

- | | | | | | |
|---|---------------------------------------|----------------------------|---|----------------------------|----------------------------|
| | PTF | DEF | | PTF | DEF |
| Citizen of This State | <input checked="" type="checkbox"/> 1 | <input type="checkbox"/> 1 | Incorporated or Principal Place of Business in This State | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 |
| Citizen of Another State | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 | Incorporated and Principal Place of Business in Another State | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 |
| Citizen or Subject of a Foreign Country | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | Foreign Nation | <input type="checkbox"/> 6 | <input type="checkbox"/> 6 |

IV. NATURE OF SUIT (Place an "X" in One Box Only)

CONTRACT	TORTS	FORFEITURE/PENALTY	BANKRUPTCY	OTHER STATUTES
<input type="checkbox"/> 110 Insurance <input type="checkbox"/> 120 Marine <input type="checkbox"/> 130 Miller Act <input type="checkbox"/> 140 Negotiable Instrument <input type="checkbox"/> 150 Recovery of Overpayment & Enforcement of Judgment <input type="checkbox"/> 151 Medicare Act <input type="checkbox"/> 152 Recovery of Defaulted Student Loans (Excl. Veterans) <input type="checkbox"/> 153 Recovery of Overpayment of Veteran's Benefits <input type="checkbox"/> 160 Stockholders' Suits <input type="checkbox"/> 190 Other Contract <input type="checkbox"/> 195 Contract Product Liability <input type="checkbox"/> 196 Franchise	PERSONAL INJURY <input type="checkbox"/> 310 Airplane <input type="checkbox"/> 315 Airplane Product Liability <input type="checkbox"/> 320 Assault, Libel & Slander <input type="checkbox"/> 330 Federal Employers' Liability <input type="checkbox"/> 340 Marine <input type="checkbox"/> 345 Marine Product Liability <input type="checkbox"/> 350 Motor Vehicle <input type="checkbox"/> 355 Motor Vehicle Product Liability <input type="checkbox"/> 360 Other Personal Injury PERSONAL INJURY <input type="checkbox"/> 362 Personal Injury - Med. Malpractice <input type="checkbox"/> 365 Personal Injury - Product Liability <input type="checkbox"/> 368 Asbestos Personal Injury Product Liability PERSONAL PROPERTY <input type="checkbox"/> 370 Other Fraud <input type="checkbox"/> 371 Truth in Lending <input type="checkbox"/> 380 Other Personal Property Damage <input type="checkbox"/> 385 Property Damage Product Liability	<input type="checkbox"/> 610 Agriculture <input type="checkbox"/> 620 Other Food & Drug <input type="checkbox"/> 625 Drug Related Seizure of Property 21 USC 881 <input type="checkbox"/> 630 Liquor Laws <input type="checkbox"/> 640 R.R. & Truck <input type="checkbox"/> 650 Airline Regs. <input type="checkbox"/> 660 Occupational Safety/Health <input type="checkbox"/> 690 Other LABOR <input type="checkbox"/> 710 Fair Labor Standards Act <input type="checkbox"/> 720 Labor/Mgmt. Relations <input type="checkbox"/> 730 Labor/Mgmt. Reporting & Disclosure Act <input type="checkbox"/> 740 Railway Labor Act <input type="checkbox"/> 790 Other Labor Litigation <input type="checkbox"/> 791 Empl. Ret. Inc. Security Act	<input type="checkbox"/> 422 Appeal 28 USC 158 <input type="checkbox"/> 423 Withdrawal 28 USC 157 PROPERTY RIGHTS <input type="checkbox"/> 820 Copyrights <input checked="" type="checkbox"/> 830 Patent <input type="checkbox"/> 840 Trademark SOCIAL SECURITY <input type="checkbox"/> 861 HIA (1395f) <input type="checkbox"/> 862 Black Lung (923) <input type="checkbox"/> 863 DIWC/DIWW (405(g)) <input type="checkbox"/> 864 SSID Title XVI <input type="checkbox"/> 865 RSI (405(g)) FEDERAL TAX SUITS <input type="checkbox"/> 870 Taxes (U.S. Plaintiff or Defendant) <input type="checkbox"/> 871 IRS—Third Party 26 USC 7609	<input type="checkbox"/> 400 State Reapportionment <input type="checkbox"/> 410 Antitrust <input type="checkbox"/> 430 Banks and Banking <input type="checkbox"/> 450 Commerce <input type="checkbox"/> 460 Deposition <input type="checkbox"/> 470 Racketeer Influenced and Corrupt Organizations <input type="checkbox"/> 480 Consumer Credit <input type="checkbox"/> 490 Cable/Sat TV <input type="checkbox"/> 810 Selective Service <input type="checkbox"/> 850 Securities/Commodities/Exchange <input type="checkbox"/> 875 Customer Challenge 12 USC 3410 <input type="checkbox"/> 890 Other Statutory Actions <input type="checkbox"/> 891 Agricultural Acts <input type="checkbox"/> 892 Economic Stabilization Act <input type="checkbox"/> 893 Environmental Matters <input type="checkbox"/> 894 Energy Allocation Act <input type="checkbox"/> 895 Freedom of Information Act <input type="checkbox"/> 900 Appeal of Fee Determination Under Equal Access to Justice <input type="checkbox"/> 950 Constitutionality of State Statutes
REAL PROPERTY <input type="checkbox"/> 210 Land Condemnation <input type="checkbox"/> 220 Foreclosure <input type="checkbox"/> 230 Rent Lease & Ejectment <input type="checkbox"/> 240 Torts to Land <input type="checkbox"/> 245 Tort Product Liability <input type="checkbox"/> 290 All Other Real Property	CIVIL RIGHTS <input type="checkbox"/> 441 Voting <input type="checkbox"/> 442 Employment <input type="checkbox"/> 443 Housing/Accommodations <input type="checkbox"/> 444 Welfare <input type="checkbox"/> 445 Amer. w/Disabilities - Employment <input type="checkbox"/> 446 Amer. w/Disabilities - Other <input type="checkbox"/> 440 Other Civil Rights	PRISONER PETITIONS <input type="checkbox"/> 510 Motions to Vacate Sentence Habeas Corpus: <input type="checkbox"/> 530 General <input type="checkbox"/> 535 Death Penalty <input type="checkbox"/> 540 Mandamus & Other <input type="checkbox"/> 550 Civil Rights <input type="checkbox"/> 555 Prison Condition		

V. ORIGIN

(Place an "X" in One Box Only)

- ☒ 1 Original Proceeding
☐ 2 Removed from State Court
☐ 3 Remanded from Appellate Court
☐ 4 Reinstated or Reopened
☐ 5 Transferred from another district (specify)
☐ 6 Multidistrict Litigation
☐ 7 Appeal to District Judge from Magistrate Judgment

VI. CAUSE OF ACTION

Cite the U.S. Civil Statute under which you are filing (Do not cite jurisdictional statutes unless diversity):

35 USC Section 271
 Brief description of cause:
 Patent infringement

VII. REQUESTED IN COMPLAINT:

☐ CHECK IF THIS IS A CLASS ACTION UNDER F.R.C.P. 23

DEMAND \$

CHECK YES only if demanded in complaint:
 JURY DEMAND: ☒ Yes ☐ No

VIII. RELATED CASE(S) IF ANY

(See instructions):

JUDGE DMS/NLS

DOCKET NUMBER 08 CV 0385

DATE

04/11/2008

SIGNATURE OF ATTORNEY OF RECORD

Paul Adams

FOR OFFICE USE ONLY

RECEIPT # 149701 AMOUNT \$350

APPLYING IFP

JUDGE

MAG. JUDGE

US. 4/14/08

ORIGINAL

**UNITED STATES
DISTRICT COURT**
SOUTHERN DISTRICT OF CALIFORNIA
SAN DIEGO DIVISION

149701 - SH

April 14, 2008
12:23:05

Civ Fil Non-Pris

USAO #: 08CV0668

Judge.: ROGER T BENITEZ

Amount.:

Check#: BC1619

\$350.00 CK

Total-> \$350.00

FROM: PARK VS. CMT USA, INC